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INSIDE THE IAM:

Editor's Notes *Page 1*

Industrial Ventilation Documents
from ACGIH and NFESC *Page 1*

New Respirator Cartridge
Standard *Page 2*

Documents On CD-ROM *Page 2*

The IAM Connection *Page 3*

Information Bulletin: Airflow
Distribution Measurement at
Hood Face or Inside a Walk-in
Booth *Page 3*

EDITOR'S NOTES

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Special thanks to the readers who contacted us about problems accessing our web page. We have fixed the problems, and the web page is up and running at URL <http://www.nfesc.navy.mil/enviro/esc425/NoshArBr.htm>

We recently received questions from readers who did not receive the IAM. Unfortunately, many e-mail messages are returned undeliverable. Our policy is to send another short message to these

addressees to notify of the problem. If the message is again returned to us undelivered, we delete the person from our mailing list. To ensure that you will continue to receive the IAM, please notify us of any address change; and make sure that your mailbox is not full.

INDUSTRIAL VENTILATION DOCUMENTS FROM ACGIH AND NFESC

By Kappy Paulson

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In late March, American Conference of Governmental Industrial Hygienists (ACGIH) released the 23rd edition of the popular Industrial Ventilation Manual, which is used throughout the world. The 23rd edition of the manual expands the chapter on indoor air quality and updates the Velocity Pressure Calculation example sheets. Many tables throughout the manual were simplified and condensed. The bulk of the committee's work went into removing outdated information and preparing a metric edition of the manual. Ordering information for both the inch-pound (English) and the metric editions is available from the ACGIH web page <http://www.acgih.org>. The cost of the manual for U.S. addresses is \$69--with tax and handling the total cost is \$86.14.

The NAVOSH Air Branch, NFESC 425, researches and writes MIL-HDBK 1003/17, Industrial Ventilation Systems. The military handbook contains a chapter on the basics of in-

dustrial ventilation design. Later chapters describe and illustrate a design approach for specific processes commonly found at DOD maintenance facilities, such as wood shops, paint operations, fiberglass lay-up and repair operations.

While ESC425 cannot provide ACGIH Industrial Ventilation Manuals to everyone in the Navy, all DOD employees can obtain a free, single copy of MIL-HDBK 1003/17C, Industrial Ventilation Systems, 29 February 1996, from the DOD Single Stock Point <<http://www.dodssp.daps.mil/>>. Choose "Order Forms," then "Specifications and Standards Order Forms". Fax the completed form to Customer Assistance, DSN 442-1462 or (215) 697-1462. Personnel from other agencies and the private sector can request copies of the 140-page document at \$0.09/page.

We are always interested in hearing from users on how to improve the military handbook and the manual. Feedback and requests from customers also help when we ask our sponsors for funding. Please contact Kappy Paulson via e-mail at kpaulso@nfesc.navy.mil if you have suggestions for improvement for existing chapters or suggestions for additional processes.

NEW RESPIRATOR CARTRIDGE STANDARD

By Vincent Fabris

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A new respirator certification standard was adopted by the National Institute for Occupational Safety and Health (NIOSH) in 1995 and goes into effect in July 1998. The new standard is 42 CFR Part 84. The new standard affects how non-powered air purifying respirator cartridges are tested and designated.

Under the new standard, nine different types of respirator cartridges for particulate are defined. There are three different filter efficiencies, 95% designated 95, 99% designated 99 and 99.97% designated 100. There are three classes of cartridges based on tolerance to oil. N is not resistant to oil, R is resistant to oil and P is oil proof. P is for multiple uses in an oil mist environment. Color-coding of cartridges is not required except for P100 which is magenta. NIOSH tests class N respirators with sodium chloride and classes R and P with dioctyl phylate.

Asbestos, lead, cadmium, arsenic and other operations that require a high efficiency particulate air (HEPA) filter

now require a N100, R100 or P100 depending on the amount of oil mist in the air. N100 could be used if there is no oil mist, R100 or P100, if there is an oil mist present.

Employees who wear half mask air purifying respirators must have respiratory protection training in the proper use of the new cartridges when use is initiated at your command. A comprehensive respirator program is required when respiratory protection is needed.

NFESC DOCUMENTS ON CD-ROM

By Nancy Bogart

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NFESC has compiled our asbestos and industrial ventilation documents in a CD-ROM. The CD-ROM includes:

NFESC SP-2027-ENV, Asbestos Control Program Operations and Maintenance Plan, with flowcharts, tables, and appendices is included as both Ascii and Ms WORD files to allow you to use this as a template in developing your own O&M Plan.

Adobe Acrobat Reader is here to allow you to read all the other documents. These include:

NFESC TM-2211-ENV, Managing Asbestos Abatement for Renovation Contracts; A Field Procedure Manual for OICC/ROICC, September 1996

NFESC TM-2210-ENV, Managing Asbestos Abatement for Demolition Contracts; A Field Procedure Manual for OICC/ROICC, September 1996

NFESC TM-2199-ENV, Industrial Ventilation Systems, Operation and Maintenance Field Manual

NEESA 66-74 Lessons Learned in Ventilation System Design for Mk-46 and Mk-48 Torpedo Maintenance Facilities, March 1993

NFESC TM-2087-ENV, Lessons Learned for Ventilation Systems at Pest Management Facilities

NEESA 66-84 Lessons Learned from Investigations of industrial Ventilation Systems for Abrasive Blasting Facilities, September 1993

MIL-HDBK 1003/17C, Industrial Ventilation Systems Design Manual, February 1996

Useful forms provided as Adobe Acrobat Reader documents are:

Asbestos Inventory Summary Form

Asbestos Homogeneous Area Summary Form

Industrial Design Review - a Checklist

Engineering and Design Criteria Review (NAVFAC 11012/9 (5-88) Form

Hazard Abatement Project Funding Requirements Package

Hazard Abatement Project Request Form

This is not a complete list of our documents. The Asbestos Control Program Operations and Maintenance Plan replaces the earlier Asbestos Facility Inventory/Assessment Protocol and some industrial ventilation documents are outdated and available only in printed form. Multimedia users can request this disc by contacting [Nancy Bogart](#) at the above e-mail address.

THE IAM CONNECTION

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Correction--Proposed PEL. OSHA's proposed PEL for hexavalent chromium is 0.0005 mg/m³ or 0.5 ug/m³ and not 0.005 mg/m³ as noted in the article on hexavalent chromium in the last issue. Lead chromate, zinc chromate and strontium chromate have separate TLV which can be found in the 1997 Threshold Limit Values and Biological Exposure Indices published by the American Conference of Governmental Industrial Hygienists.

For further information please contact Vince Fabris via e-mail at vfabris@nfesc.navy.mil.

INFORMATION BULLETIN

Air Flow Distribution Measurement at Hood Face or Inside a Walk-in Booth

By: Trinh Do

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If you are reading the pdf or html versions of the newsletter then click this link to obtain Information Bulletin IB117. If you are reading the ascii text version then go to <http://www.nfesc.navy.mil/enviro/esc425/IAMpage.htm> and click on the format of your choice. If you have problems downloading or reading the bulletin online then contact the author for a printed version of the article.

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